INTERNATIONAL SEARCH REPORT

Application No PC1/432004/023864

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 D04H3/03 D04H DO4H3/16 D01D5/098 D01F9/145 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 DO4H DO1D DO1F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Calegory • Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5 766 646 A (FREY DETLEF ET AL) 1-4,8, 16 June 1998 (1998-06-16) 10-12, 14,15, 18-23 Y 6,7,20 Υ WO 96/35009 A (CONOCO INC) 6,7 7 November 1996 (1996-11-07) page 7, line 14 - line 22; claims 1-22; figure 1 A WO 97/05306 A (KIMBERLY CLARK CO) 1-28 13 February 1997 (1997-02-13) page 5, line 18 - page 7, line 23; figures 1c,19 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the International filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the 'A' document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is ched to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-*O* document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the International search Date of mailing of the international search report 17 December 2004 29/12/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016

Mangin, S

INTERNATIONAL SEARCH REPORT

Inte onal Application No
PCT/US2004/023864

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Polovent to stein \$15
~เซยพัง	onation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
\	EP 1 170 A11 A (LINT CHARM CORR)	1.00
•	EP 1 170 411 A (UNI CHARM CORP) 9 January 2002 (2002-01-09)	1-28
	paragraphs '0010! - '0015!; figures 1-3	
	US 5 599 488 A (PROFEE HANS J)	1-28
	4 February 1997 (1997-02-04)	
	column 6, line 5 - column 7, line 8;	
	figures 1,3	
,		
Y	US 3 325 906 A (FRANKE RALPH A) 20 June 1967 (1967-06-20)	20
	column 4, line 24 - line 35; figure 5	i i
		1
	*	
		·
		İ
		-
		1

INTERNATIONAL SEARCH REPORT

Int. al Application No PCI/US2004/023864

Patent do cited in sea			Publication date		Patent family member(s)		Publication date
US 5766	646	Α	16-06-1998	DE	19521466	A1	19-12-1996
				ΙŢ	MI960970		14-11-1997
				JP	3135498		13-02-2001
				JP	9095854		08-04-1997
WO 9635	5009	Α	07-11-1996	US	5648041	A	15-07-1997
				CA	2214282		07-11-1996
				CN	1183815		03-06-1998
				DE	69621934		25-07-2002
				DE	69621934		19-12-2002
				EP	0840812		13-05-1998
				ĒS	2175082		16-11-2002
				JP	11504400		20-04-1999
				NO	975077		04-11-1997
				SG	79204		20-03-2001
				TW			
					412605		21-11-2000
				WO	9635009		07-11-1996
				ZA 	9602480	А 	29-09-1997
WO 9705	306	Α	13-02-1997	บร	5667749	Α	16-09-1997
				US	5711970	Α	27-01-1998
				US	5652048	Α	29-07-1997
				AU	698075		22-10-1998
				AU	6648896		26-02-1997
				BR	9610447		08-06-1999
				CA	2224906	* -	13-02-1997
				CN	1198193		04-11-1998
				EP	0842310		20-05-1998
				WO	9705306		13-02-1997
				ÜS	5807795		15-09-1998
				ZA	9605784		12-12-1996
				ŪS	5811178		22-09-1998
EP 1170	0411	Α	09-01-2002	JP	2002020962		23-01-2002
				ΑU	5393401		10-01-2002
				BR	0103300		13-02-2002
				CA	2351104		05-01-2002
				CN	1332283		23-01-2002
				ΕP	1170411	A1	09-01-2002
				SG	88827		21-05-2002
				TW	554107		21-09-2003
				US	2002020047		21-02-2002
US 5599	9488	Α	04-02-1997	DE	4409940	A1	12-10-1995
				CN	1112169		22-11-1995
				DE	59509475		13-09-2001
				EP	0674036		27-09-1995
				JР	7268720		17-10-1995
				ÜS	5714171		03-02-1998
US 3329	 5906	Α	20-06-1967	LU	53561	Δ1	28-06-1967